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		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
APPLICATION NO	FILING DATE	Ellen Heber-Katz	00486.00006	1820	
09:813,930	03/22/2001		(A)480.0000		
22907 7590 07.24.2002			EXAMINER		
BANNER & 1001 G STREI	WITCOFF ET N W		LACOURCIERE, KAREN A		
SUITE 1100 WASHINGTO	on, DC 20001		ART UNIT	PAPER NUMBER	
			1635	5	
			DATE MAILED: 07/24/200	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Ap	plicant(s)
		09/813,930	HE	BER-KATZ, ELLEN
	Office Action Summary	Examiner	Art	t Unit
		Karen Lacourcier	e 16	
	The MAILING DATE of this communication ap	pears on the cover	sheet with the corre	espondence address
Pariod for	Renly			
THE M - Extens after S - If the p - If NO - Failure	PRIENT STATUTORY PERIOD FOR REPLIALING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Deriod for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period is to reply within the set or extended period for reply will, by staturably received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a) In no event, howe ply within the statutory minitive statutory minitive statutory minitive statutory minitive statutory.	ver, may a reply be timely f mum of thirty (30) days will SIX (6) MONTHS from the r	iled be considered timely mailing date of this communication. 5 U.S.C. \$ 133).
Status				
1)	Responsive to communication(s) filed on	 This action is non-fi	nal.	
2a)	This action is FINAL . 2b) \(\bigcup \) I Since this application is in condition for allow	vance except for fo	ormal matters, pros	ecution as to the merits is
3)	Since this application is in condition for allow closed in accordance with the practice under	er Ex parte Quayle,	1935 C.D. 11, 453	O.G. 213.
Dispositi	on of Claims			
4)[Claim(s) 1-23 is/are pending in the application	on.		
	4a) Of the above claim(s) is/are withdo	rawn from consider	ation.	
	Claim(s) is/are allowed.			
6)	Claim(s) is/are rejected.			
7)	Claim(s) is/are objected to.			
8)[Claim(s) 1-23 are subject to restriction and/o	or election requiren	nent.	
	ion Papers			
9)[The specification is objected to by the Exami	iner.	by the Even	iner
10)	The drawing(s) filed on is/are: a) ac	cepted or b) object	ted to by the Exam	37 CFR 1 85(a).
	Applicant may not request that any objection to	the drawing(s) be in	ed h\□ disapprov	ed by the Examiner.
11)[The proposed drawing correction filed on			54 5 ,•
	If approved, corrected drawings are required in	Freminer	CHOII.	
	The oath or declaration is objected to by the	Examiner.		
Priority	under 35 U.S.C. §§ 119 and 120		ne II C C & 119/a).	-(d) or (f)
	Acknowledgment is made of a claim for for	eign priority under	35 0.3.0. 8 113(4)	(d) or (i).
а	ı) ☐ All b) ☐ Some * c) ☐ None of:		naivad	
	1. Certified copies of the priority docum	ents have been re	ceived. esived in Applicatio	n No
	2. Certified copies of the priority docum	nents have been re	beived in Application	d in this National Stage
	3. Copies of the certified copies of the application from the International See the attached detailed Office action for a	list of the certified	copies not received	d.
14/17	Acknowledgment is made of a claim for dom	nestic priority under	· 35 U.S.C. § 119(e	(to a provisional application)
	The state of the foreign language	nrovisional applic	ation has been reci	eiveu.
15)	a) [] The translation of the foreign language] Acknowledgment is made of a claim for dor	nestic priority unde	r 35 U.S.C. §§ 120	and/or iz i.
Attachm	ent(s)			r (PTO-413) Paper No(s)
1 av \square N	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948 formation Disclosure Statement(s) (PTO-1449) Paper No	4) 5) 0(s) 6)	Notice of Informal F	Patent Application (PTO-152)
	nd Trademark Office			Part of Paper No. 5

FILECUTY

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-5 and 15-23, drawn to a method of increasing healing of a heart wound in a mammal by administering a small molecule thyroid hormone inhibitor, classifiable in class 514, subclass 1.
- II. Claims 1, 6, 7, 9, 10 and 15-23, drawn to a method of increasing healing of a heart wound in a mammal by administering a polynucleotide which inhibits the expression of thyroglobulin, classified in class 514, subclass 44.
- III. Claims 1, 6, 8, 9, 11 and 15-23, drawn to a method of increasing healing of a heart wound in a mammal by administering a polynucleotide inhibitor of thyroid stimulating hormone, classified in class 514, subclass 44.
- IV. Claims 1, 12, 13 and 15-23, drawn to a method of increasing healing of a heart wound in a mammal by administering an antibody that specifically binds to thyroglobulin, classified in class 514, subclass 2.
- V. Claims 1, 12 and 14-23, drawn to a method of increasing healing of a heart wound in a mammal by administering an antibody that specifically binds to thyroid stimulating hormone, classified in class 514, subclass 2.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II and III and IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have

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different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods, which are not used together, and which have different modes of operation.

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods with different modes of operation. For example, the methods of Group I comprise administering a small molecule thyroid hormone lowering agent, which operates by inhibiting the production of thyroid hormone by the thyroid, these agents are materially different than the methods of Group II, which require administration of a polynucleotide, and operate by inhibiting the expression of thyroglobulin by binding to mRNA encoding thyroglobulin.

Inventions I and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods with different modes of operation. For example, the methods of Group I comprise administering a small molecule thyroid hormone lowering agent, which operates by inhibiting the production of thyroid hormone by the thyroid, these agents are materially different than the methods of Group III, which require administration of a polynucleotide,

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and operate by inhibiting the expression of thyroid stimulating hormone by binding to mRNA encoding thyroid stimulating hormone.

Inventions I and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods with different modes of operation. For example, the methods of Group I comprise administering a small molecule thyroid hormone lowering agent, which operates by inhibiting the production of thyroid hormone by the thyroid, these agents are materially different than the methods of Group IV, which require administration of an antibody, and operate by inhibiting thyroglobulin activity by binding to thyroglobulin protein.

Inventions I and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods with different modes of operation. For example, the methods of Group I comprise administering a small molecule thyroid hormone lowering agent, which operates by inhibiting the production of thyroid hormone by the thyroid, these agents are materially different than the methods of Group V, which require administration of an antibody, and operate by inhibiting thyroid stimulating hormone activity by binding to thyroid stimulating hormone activity.

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Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not capable of use together and are drawn to materially different methods with different modes of operation. For example, the methods of Group II are drawn to methods wherein a polynucleotide, which binds to thyroglobulin mRNA is administered, and the methods operate by inhibiting the expression of thyroglobulin. The polynucleotides of Group II are materially different than the polynucleotides of Group III, which bind to mRNA encoding thyroid stimulating hormone, because the structure (ie. nucleotide sequence) is based on the sequence of the target mRNA. Additionally, the methods of Group III have a different mode of operation, because the methods of Group III operate by inhibiting the expression of thyroid stimulating hormone.

Inventions II and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods with different modes of operation. For example, the methods of Group II require the administration of a polynucleotide, which is composed of nucleotides, and operate by inhibiting the expression of thyroglobulin. This is materially different than the methods of Group IV, which require the administration of an antibody, which is composed of amino acids, and operate by inhibiting the activity of thyroglobulin.

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Inventions II and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods with different modes of operation. For example, the methods of Group II require the administration of a polynucleotide, which is composed of nucleotides, and operate by inhibiting the expression of thyroglobulin. This is materially different than the methods of Group IV, which require the administration of an antibody, which is composed of amino acids, and operate by inhibiting the activity of thyroid stimulating hormone.

Inventions III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods with different modes of operation. For example, the methods of Group II require the administration of a polynucleotide, which is composed of nucleotides, and operate by inhibiting the expression of thyroid stimulating hormone. This is materially different than the methods of Group IV, which require the administration of an antibody, which is composed of amino acids, and operate by inhibiting the activity of thyroglobulin.

Inventions III and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to materially different methods with

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different modes of operation. For example, the methods of Group III require the administration of a polynucleotide, which is composed of nucleotides, and operate by inhibiting the expression of thyroid stimulating hormone. This is materially different than the methods of Group V, which require the administration of an antibody, which is composed of amino acids, and operate by inhibiting the activity of thyroid stimulating hormone.

Inventions IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not capable of use together and are drawn to materially different methods with different modes of operation. For example, the methods of Group IV are drawn to methods wherein an antibody, which binds specifically to thyroglobulin, is administered and the methods operate by inhibiting the activity of thyroglobulin. This is different than the methods of Group V, wherein an antibody which specifically binds thyroid stimulating hormone is administered and the methods of Group V operate by inhibiting the expression of thyroid stimulating hormone.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Claims 1 and 15-23 are generic to Groups I-V. Additionally, claims 6 and 9 are generic to Groups II and III and claim 12 is generic to groups IV and V. These claims will be examined only to the extent that they read on the elected invention.

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This application contains claims directed to the following patentably distinct species of the claimed invention: In Group I, the methods of treatment claimed are drawn to four patentably distinct species, propylthiouracil, methimazole, carbimazole and radiolabeled iodide.

If Applicant should elect Group I, Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 and 15-23 are generic to Group I.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Conclusion

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Lacourciere whose telephone number is (703) 308-7523. The examiner can normally be reached on Monday-Friday 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader can be reached on (703) 308-0447. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 305-1935 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Karen A. Lacourciere July 17, 2002

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